

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
July 2006

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE
Althea Austin-Smith,
Service Hydrologist
DATE
8/21/2006

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

An X inside this box indicates that no flooding occurred within this hydrologic service area.

Summary: Both the San Juan and St. Thomas ASOS sites once again reported above normal rainfall for the month of July after a wet June. The San Juan ASOS reported 8.92 inches for the month of July ... 4.76 inches more than the normal of 4.16 inches. At the Truman Field in St. Thomas, the reported amount was 3.90 inches ... 1.48 inches above the normal of 2.42 inches.

There were three events that clearly stood out from the normal diurnal pattern that usually sets up in Puerto Rico and the US Virgin Islands. These events were a result of Tropical Waves interacting with Upper Level Troughs. As experienced in June, the most significant rises on the rivers were a result of heavy rainfall associated with these Tropical Waves interacting with local effects and dynamics of the Upper Level Troughs.

There were many more Flood Watches issued this month than in the past few months since the meteorological conditions that produced these heavy rain patterns were much more pronounced than the diurnal patterns that usually produce localized heavy rainfall across the region. These rainfall events were also much more widespread in coverage which led to issuance of a higher percentage of Flash Flood Warnings.

Most of the Flash Flood Warnings and Statements were issued to address the flooding that occurred on July 10th when heavy rain moved across the entire basins in Eastern and Central PR. High intensity rainfall occurred from the headwaters to the mouth of the Rio Grande de Loiza, Rio Bayamon, and Rio De La Plata rivers. While the headwaters of these rivers are in the mountains, these rivers run through the Greater Metropolitan Area of San Juan affecting the residents and commuters in cities of Caguas, Bayamon and San Juan. The flooding that resulted was in the minor to moderate category.

As always, Urban/Small Stream Flood Advisories were plentiful ... as is the case during the rainy season in Puerto Rico. Any localized heavy rainfall results in urban, small stream and poor drainage flooding in many of the urban centers across Puerto Rico and the US Virgin Islands.

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	25
Flood Warnings (SJUFLWSJU)	3
Flash Flood Warnings (SJUFFWSJU)	17
Flash Flood Statements (SJUFFSSJU)	19
Urban/Small Stream Flood Advisories (SJUFLSSJU)	74

